

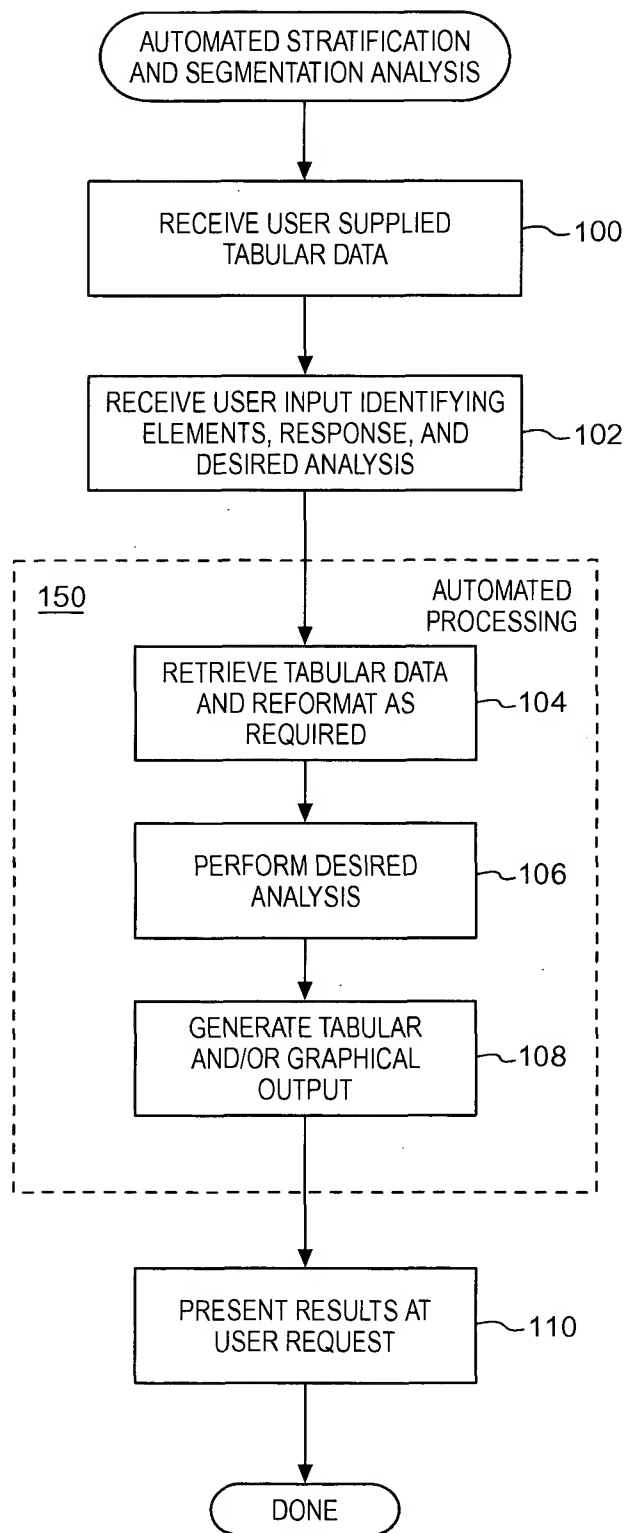
FIG. 1

FIG. 2

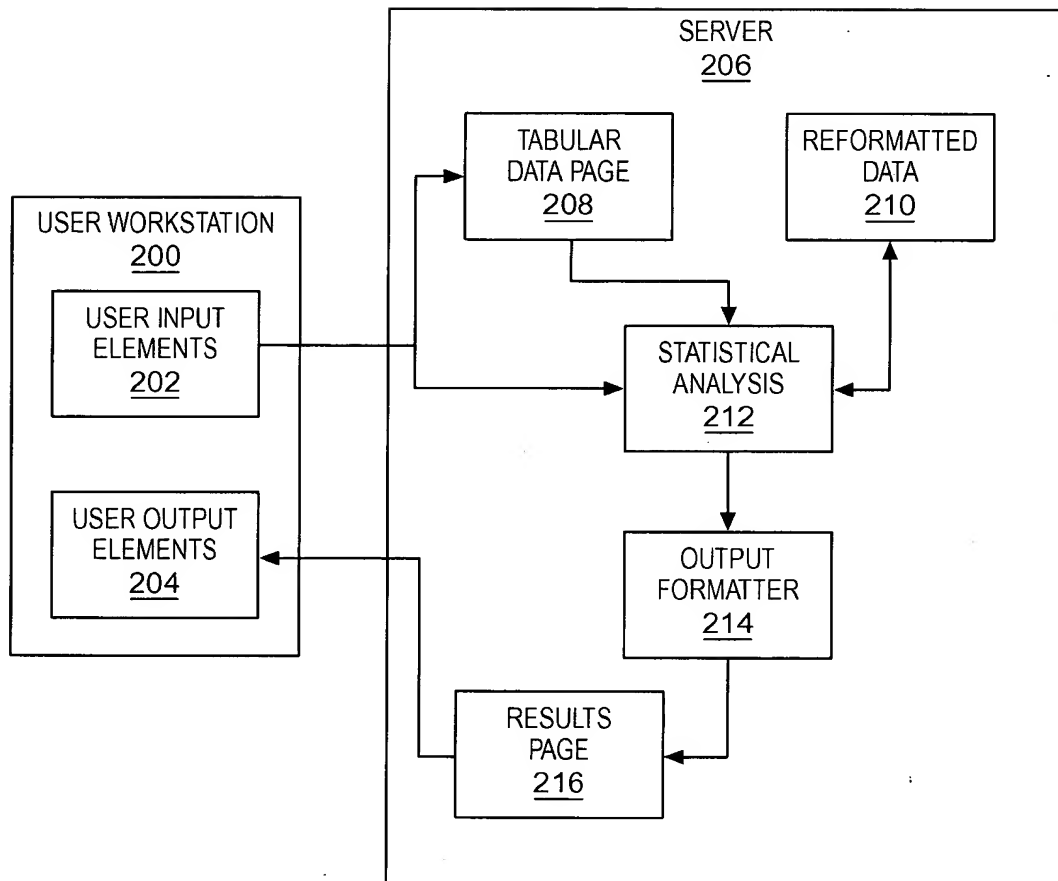
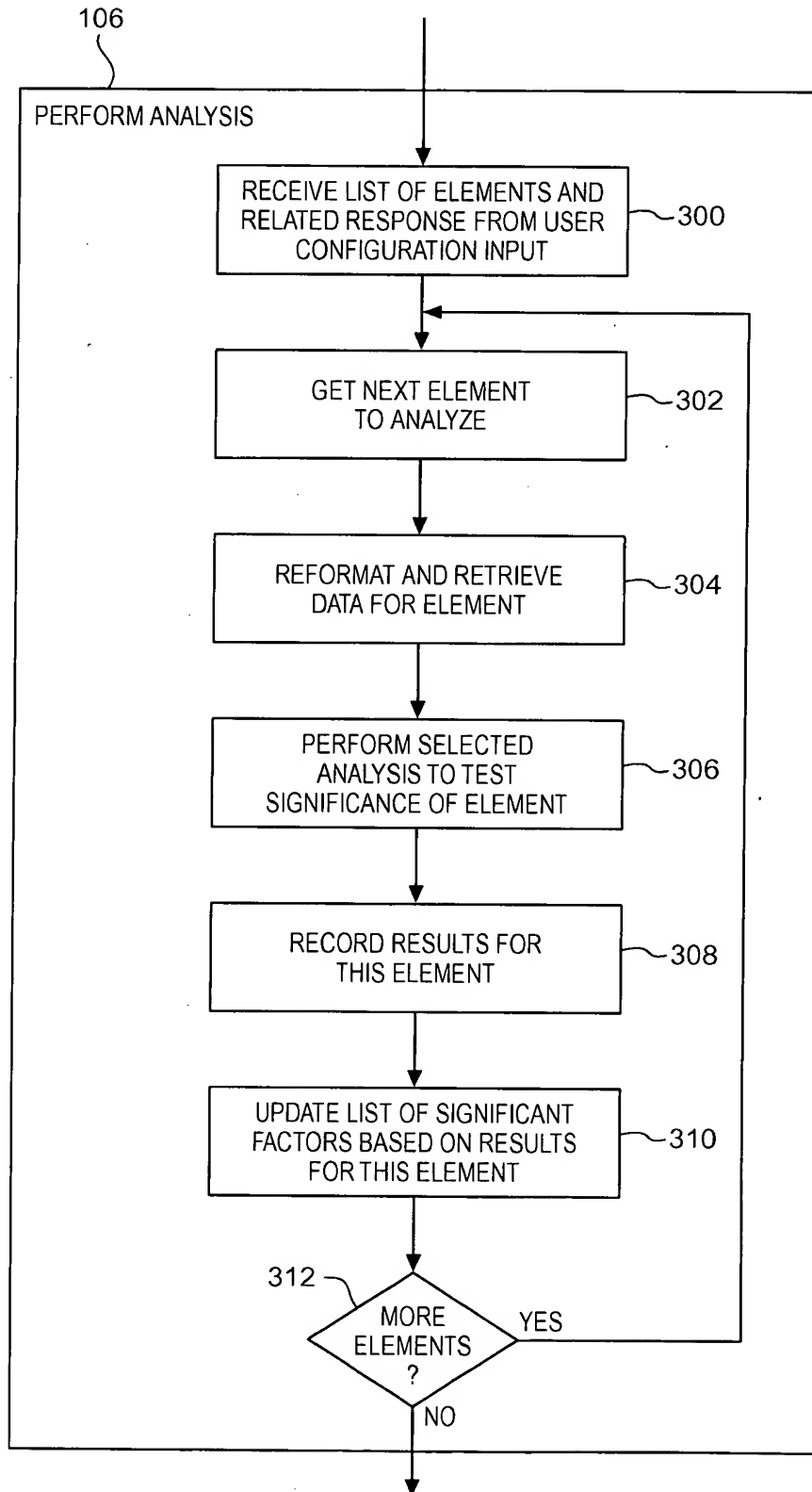


FIG. 3

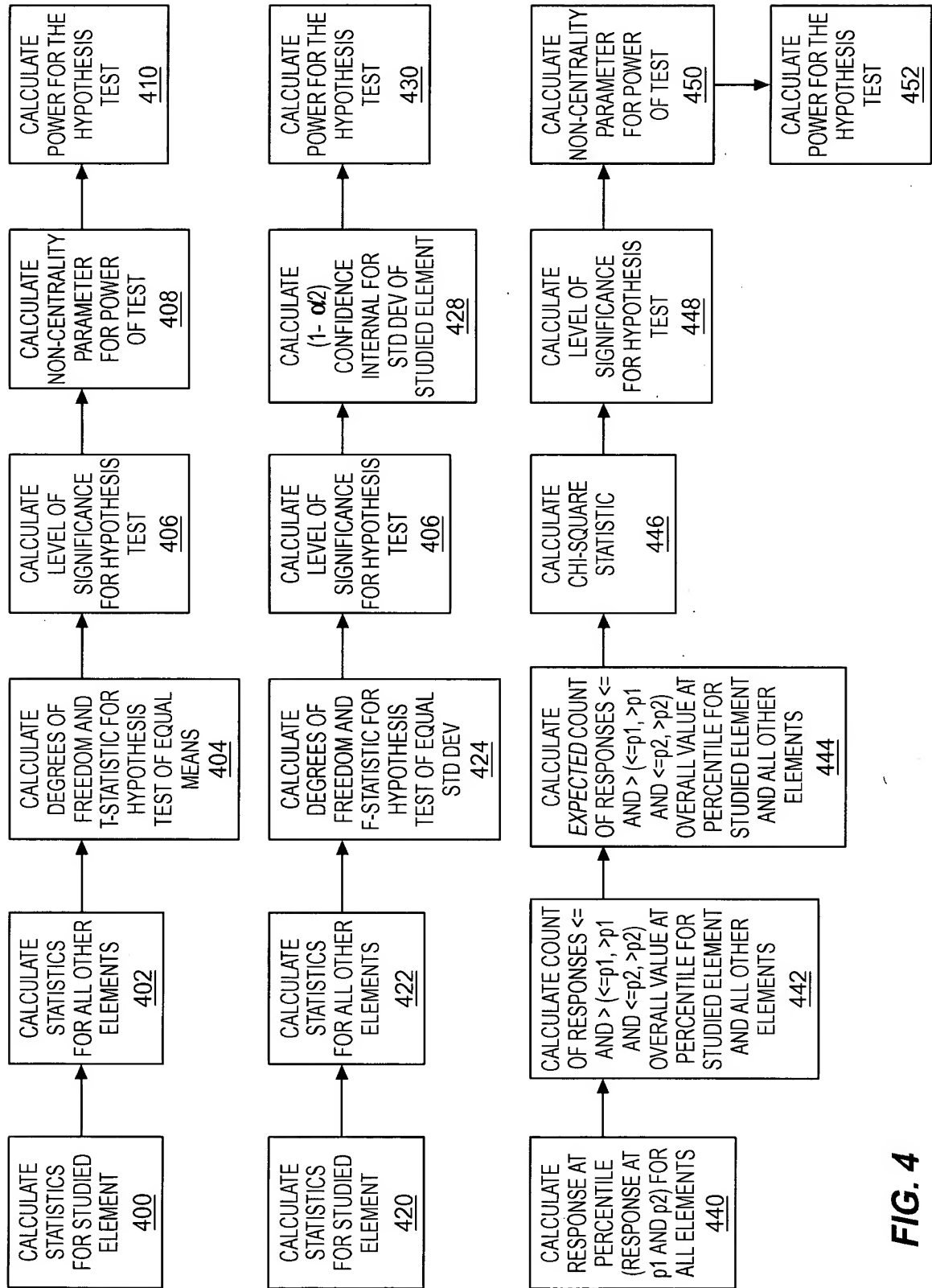


FIG. 4

	A	B	C	D	E	F	G
1	Set-Up Clear DB Sheet Initialize Tool Re-Load Data		SSS for All Selected X's Main Effects Only By Specified Order All Possible Orders		Additional Functions SPAN Analysis Standardize a Y Group a Field to a New X Save Results Get Transfer Function		<div style="text-align: center;"> <div>DATA</div> <div>NINJA</div> </div>
2	Significant Factor Specifications Minimum Record Count: 1 Maximum P Value (α): 0.05 Minimum Test Power ($1 - \beta$): 90% "Above" Filter Value: <input type="checkbox"/> Use "Above" Filter 2.00 "Below" Filter Value: <input type="checkbox"/> Use "Below" Filter -2.00						
3	09/08/2002 00:09:00 Macro Start Time 09/08/2002 00:09:08 Macro Stop Time 00:00:08 Run Time						
4	Row Color X (Filter) Y (Response) Not Applicable						
5							
6							
7							
8							
9	X/Y	Database Fields	X Level / Y Metric Selector	X Filter	Analyze Top N Elements	Element Order / Y Weight Selector	Total Element Count In DB
10	Y	On_Time_Delivery	MEDIAN				3
11	X	Customer_Type	1				4
12	X	Geography	1				2
13	X	Market_Type	1				4
14	X	Account_Representative	1				3
15	X	Credit_Rating	1				3
16	X	Material_Available	1				3
17							
18	Start / Table Output / Chart Output / SPAN Analysis / Output log / Stat Seg / TF-Form / TF-Data						

FIG. 5

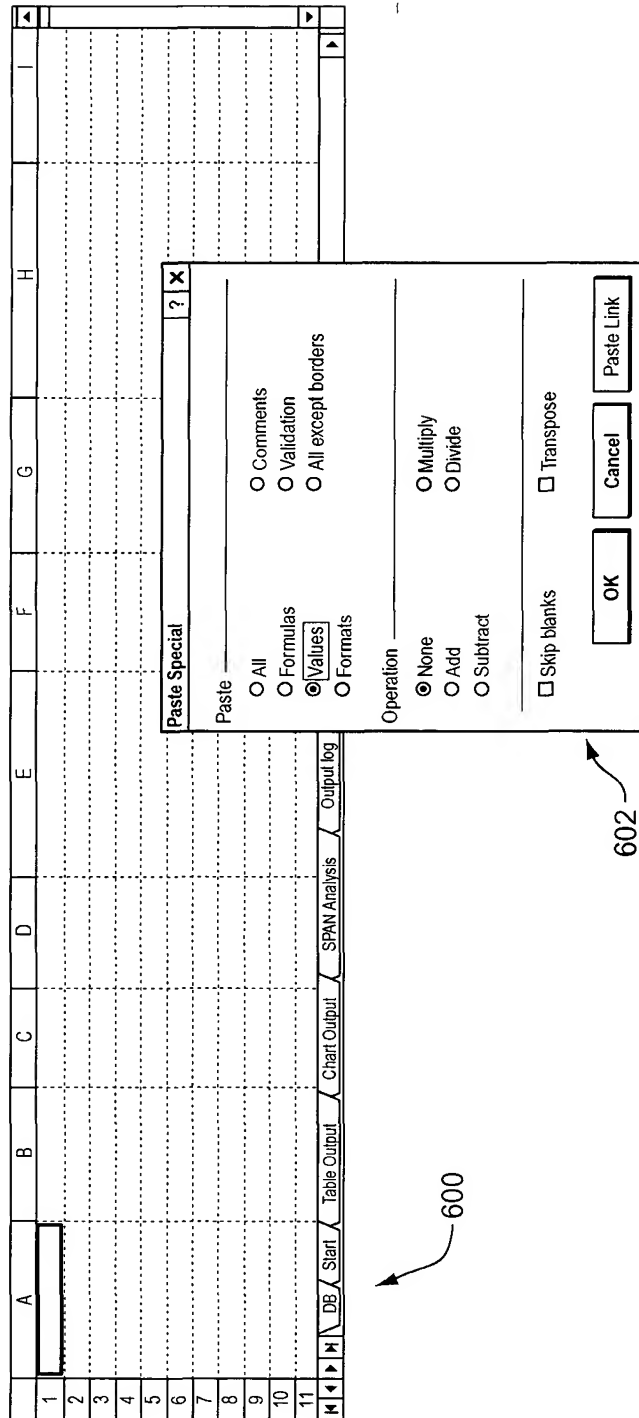


FIG. 6

FIG. 7

	A	B	C	D	E	F	G
1	Set-Up Clear DB Sheet Initialize Tool Re-Load Data		SSS for All Selected X's Main Effects Only By Specified Order All Possible Orders		Additional Functions SPAN Analysis Standardize a Y Group a Field to a New X Save Results Get Transfer Function		<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; text-align: center; line-height: 100px;"> DATA NINJA </div>
2	Significant Factor Specifications				09/08/2002 00:09:00 Macro Start Time 09/08/2002 00:09:08 Macro Stop Time 00:00:08 Run Time		
3	Minimum Record Count:		1				
4	Maximum P Value (α):		0.05				
5	Minimum Test Power (1 - β):		90%				
6	"Above" Filter Value: <input type="checkbox"/> Use "Above" Filter		2.00				
7	"Below" Filter Value: <input type="checkbox"/> Use "Below" Filter		-2.00				
8			Row Color <input type="checkbox"/> X (Filter) <input type="checkbox"/> Y (Response) <input type="checkbox"/> Not Applicable				
9	X / Y	Database Fields	X Level / Y Metric Selector	X Filter	Analyze Top N Elements	Element Order / Y Weight Selector	Total Element Count In DB
10	Y	On_Time_Delivery					
11	X	Customer_Type					
12		Geography					
13	X	Market_Type					
14	Y	Account_Representative					
15		Credit_Rating					
16		Material_Available					
17							
18							
19							

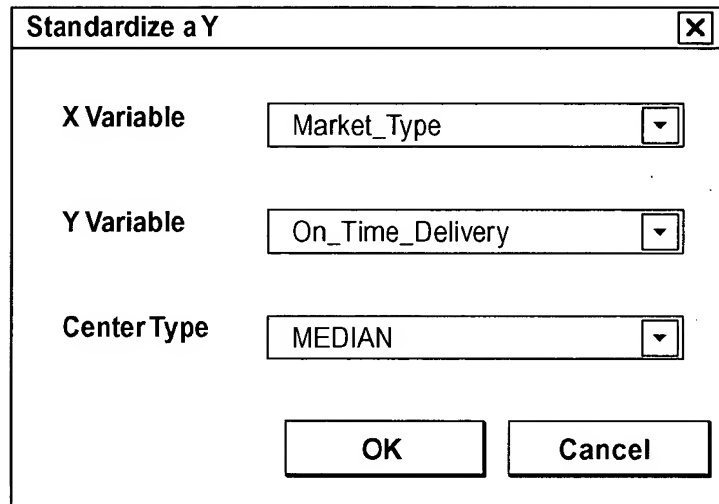
Instructions DB Start Table Output Chart Output SPAN Analysis Output log Stat Seq TF-Form TF-Data

700

702

9	X / Y	Database Fields
10	Y	On_Time_Delivery
11	X	Customer_Type
12		Geography
13	X	Market_Type
14	Y	Account_Representative

FIG. 8



A screenshot of a software dialog box titled "Standardize a Y". The dialog box has a standard Windows-style title bar with a close button (X) in the top right corner. Inside the dialog, there are three rows of controls. The first row is labeled "X Variable" and contains a text box with "Market_Type" and a dropdown arrow. The second row is labeled "Y Variable" and contains a text box with "On_Time_Delivery" and a dropdown arrow. The third row is labeled "Center Type" and contains a text box with "MEDIAN" and a dropdown arrow. At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

Standardize a Y	
X Variable	Market_Type
Y Variable	On_Time_Delivery
Center Type	MEDIAN
<div>OK Cancel</div>	

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FIG. 9

	A	B	C	D	E	F	G
1	Set-Up		SSS for All Selected X's		Additional Functions		<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 0; right: 0; width: 50%; height: 50%; border: 1px solid black; transform: rotate(45deg);"></div> <div style="position: absolute; bottom: 0; left: 0; width: 50%; height: 50%; border: 1px solid black; transform: rotate(-45deg);"></div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-weight: bold; font-size: 1.2em;">DATA</div> <div style="position: absolute; top: 60%; left: 60%; font-weight: bold; font-size: 1.2em;">NINJA</div> </div>
2	Clear DB Sheet	Main Effects Only	SPAN Analysis		Save Results		
3	Initialize Tool	By Specified Order	Standardize a Y		Get Transfer Function		
4	Re-Load Data	All Possible Orders	Group a Field to a New X				
5	Significant Factor Specifications				09/08/2002 00:09:00 Macro Start Time		
6	Minimum Record Count: 1				09/08/2002 00:09:08 Macro Stop Time		
7	Maximum P Value (α): 0.05				00:00:08 Run Time		
8	Minimum Test Power (1 - β): 90%				<div style="border: 1px solid black; padding: 2px;"> Row Color </div>		
9	X / Y	Database Fields	X Level / Y Metric Selector	X Filter	Analyze Top N Elements	Element Order / Y Weight Selector	Total Element Count In DB
10	Y	On_Time_Delivery					
11	X	Customer_Type					
12	X	Geography					
13	X	Market_Type					
14	X	Account_Representative					
15	X	Credit_Rating					
16	X	Material_Available					
17	Y	On_Time_Delivery_STD_MED_Market_Type					
18							
19	<div style="border: 1px solid black; padding: 2px;"> Instructions DB Start Table Output Chart Output SPAN Analysis Output log Stat Seq TF-Form TF-Data </div>						

900

14	X	Account_Representative
15	X	Credit_Rating
16	X	Material_Available
17	Y	On_Time_Delivery_STD_MED_Market_Type
18		

FIG. 10

Group a Data Field X

Filed Name On_Time_Delivery ▼

New X Label	Alpha-Numeric Range			# of Percentile Auto-groups
1-24 Percentile	-111	<= x <	-3	
25-49 Percentil	-3	<= x <	0	2
50-74 Percentil	0	<= x <	4	3
75-100 Percent	4	<= x <	166	4
		<= x <		5
		<= x <		6
		<= x <		7
		<= x <		8
		<= x <		9
		<= x <		10

OK Cancel

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FIG. 11

	A	B	C	D	E	F	G
1	Set-Up Clear DB Sheet Initialize Tool Re-Load Data		SSS for All Selected X's Main Effects Only By Specified Order All Possible Orders		Additional Functions SPAN Analysis Standardize a Y Group a Field to a New X Save Results Get Transfer Function		<div style="border: 2px solid black; width: 100px; height: 100px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 0; right: 0; width: 50%; height: 50%; transform: rotate(45deg); border-left: 2px solid black; border-right: 2px solid black;"></div> <div style="position: absolute; bottom: 0; left: 0; width: 50%; height: 50%; transform: rotate(-45deg); border-left: 2px solid black; border-right: 2px solid black;"></div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-weight: bold; font-size: 1.2em;">DATA</div> <div style="position: absolute; top: 60%; left: 60%; font-weight: bold; font-size: 1.2em;">NINJA</div> </div>
2	Significant Factor Specifications				09/08/2002 00:09:00 Macro Start Time 09/08/2002 00:09:08 Macro Stop Time 00:00:08 Run Time		
3	Minimum Record Count: 1						
4	Maximum P Value (α): 0.05						
5	Minimum Test Power ($1 - \beta$): 90%						
6	"Above" Filter Value: <input type="checkbox"/> Use "Above" Filter 2.00				Row Color <input type="checkbox"/> X (Filter) <input type="checkbox"/> Y (Response) <input type="checkbox"/> Not Applicable		
7	"Below" Filter Value: <input type="checkbox"/> Use "Below" Filter -2.00						
8							
9	X / Y	Database Fields	X Level / Y Metric Selector	X Filter	Analyze Top N Elements	Element Order / Y Weight Selector	Total Element Count In DB
10	Y	On_Time_Delivery					3
11	X	Customer_Type					4
12	X	Geography					2
13	X	Market_Type					4
14	X	Account_Representative					3
15	X	Credit_Rating					3
16	X	Material_Available					5
17	X	On_Time_Delivery_GROUPED					
18							

Start Table Output Chart Output SPAN Analysis Output log Stat Seq TF-Form TF-Data

1100 →

15	X	Credit_Rating
16	X	Material_Available
17	X	On_Time_Delivery_GROUPED
18		

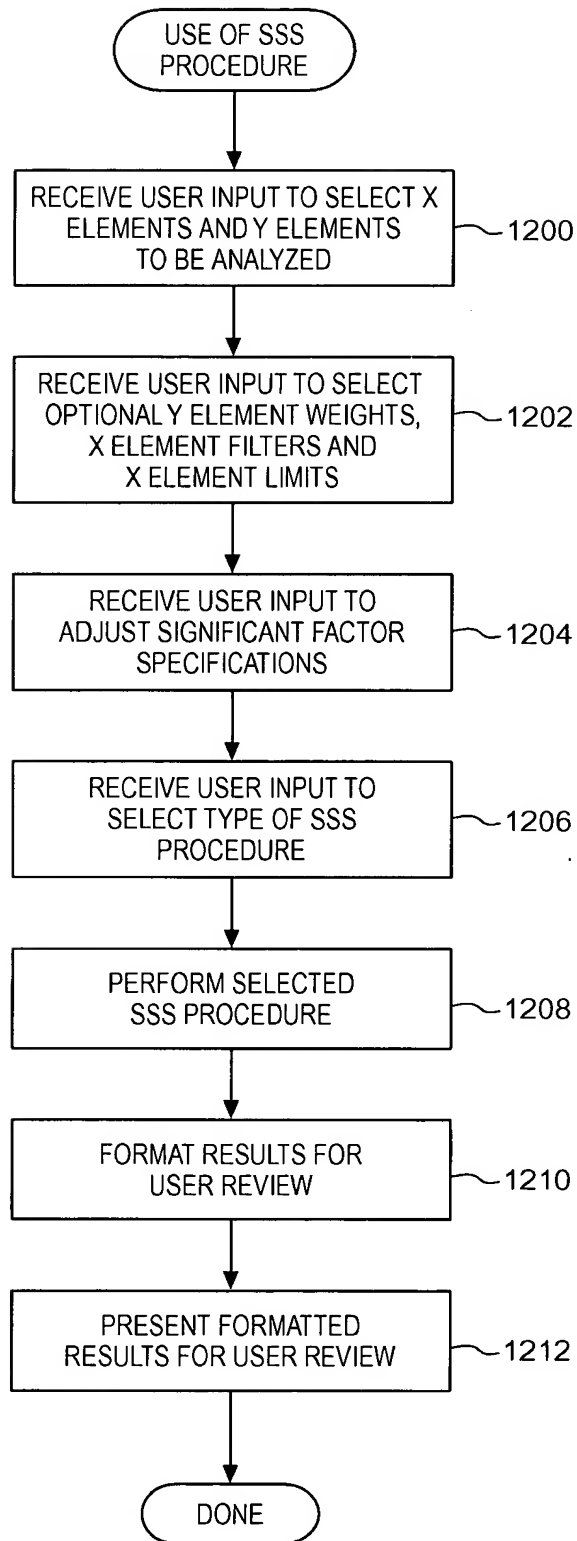
FIG. 12

FIG. 13

		A		B		C		D		E		F		G		H	
		On_Time_Delivery		Customer_Type		Geography		Market_Type		Account_Representative		Credit_Rating		Material_Available			
	1			Strategic	South	Industrial	Leslie	C							Parts Ordered		
	2			Strategic	North	Industrial	Mark	A							Parts Ordered		
	3			Strategic	South	Industrial	Leslie	A							No Part Required		
	4			Standard	South	Industrial	Mark	A							Parts Available		
	5			Standard	North	Commercial	Joe	A							Parts Ordered		
	6			Strategic	West	Industrial	Leslie	C							Parts Ordered		
	7			Standard	South	Industrial	Stacey	B							No Part Required		
	8			Dashboard	North	Commercial	Mark	C							No Part Required		
	9			Standard	West	Commercial	Stacey	B							No Part Required		
	10			Dashboard	West	Industrial	Mark	C							Parts Available		
	11			Strategic	North	Industrial	Mark	A							No Part Required		
	12			Standard	South	Industrial	Stacey	A							Parts Ordered		
	13			Dashboard	South	Commercial	Joe	A							No Part Required		
	14			Standard	West	Commercial	Mark	B							Parts Available		
	15			Standard	South	Industrial	Joe	A							No Part Required		
	16			Strategic	North	Industrial	Joe	A							Parts Ordered		
	17			Standard	North	Industrial	Mark	B							Parts Available		
	18			Standard	South	Commercial	Mark	B							No Part Required		
	19			Dashboard	East	Commercial	Leslie	A							Parts Ordered		
	20			Standard	South	Industrial	Mark	B							Parts Available		
	21			Strategic	East	Commercial	Stacey	C							Parts Available		
	22			Dashboard	South	Commercial	Stacey	A							No Part Required		
	23			Dashboard	South	Industrial	Leslie	A							Parts Ordered		
	24			Dashboard	North	Industrial	Mark	B							Parts Available		
	25			Standard	South	Industrial	Joe	B							No Part Required		
	26			Dashboard	South	Industrial	Leslie	A							Parts Available		
	27			Strategic	East	Commercial	Joe	B							Parts Ordered		
	28			Dashboard	South	Industrial	Stacey	A							Parts Available		
	29			Standard	North	Industrial	Leslie	B							Parts Available		
	30			Standard	West	Industrial	Joe	C							Parts Ordered		
	31			Strategic	South	Industrial	Mark	A							Parts Ordered		
	32			Standard	North	Commercial	Joe	A							No Part Required		
	33			Dashboard	West	Industrial	Joe	B							Parts Ordered		
	34			Dashboard	South	Commercial	Stacey	A							No Part Required		
	35			Dashboard	North	Commercial	Joe	C							Parts Ordered		
	36			Standard	East	Commercial	Mark	B							Parts Available		
	37			Standard	East	Commercial	Stacey	A							No Part Required		
	38			Standard	North	Industrial	Stacey	A							Parts Available		
	39			Standard	South	Commercial	Joe	A							No Part Required		
	40			Standard	West	Commercial	Joe	B							Parts Available		
		DB	Start	Table Output		Chart Output		SPAN Analysis		Output Log		StratSeg		TF-Form		TF-Data	

X / Y	Database Fields	X Level / Y Metric Selector	X Filter	Analyze Top N Elements	Element Order / Y Weight Selector	Total Element Count In DB
Y	On_Time_Delivery	MEDIAN				
X	Customer_Type	1				3
X	Geography	1				4
X	Market_Type	1				2
X	Account_Representative	1				4
X	Credit_Rating	1				3
X	Material_Available	1				3

FIG. 14

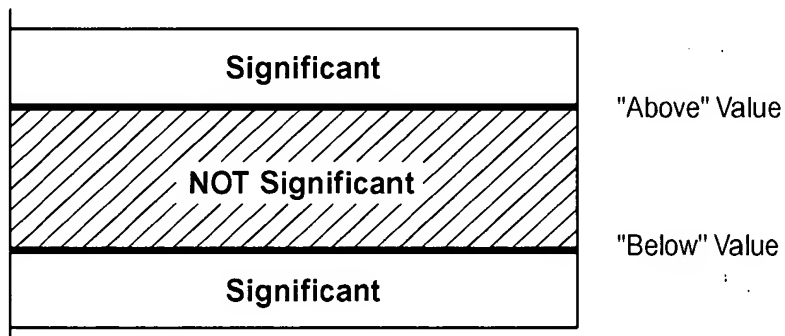
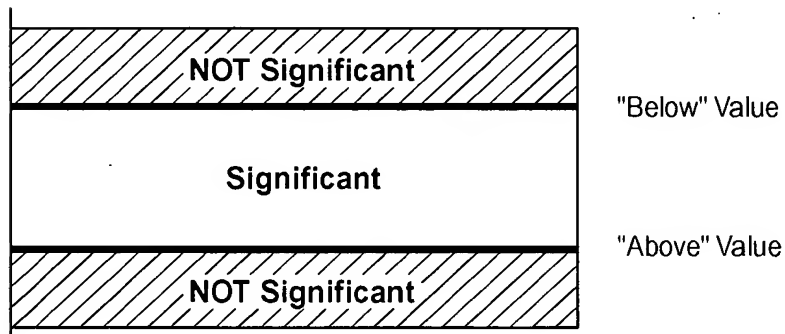
X / Y	Database Fields	X Level / Y Metric Selector	X Filter	Analyze Top N Elements	Element Order / Y Weight Selector	Total Element Count In DB
Y	On_Time_Delivery	MEDIAN				
X	Customer_Type	1				3
X	Geography	1				4
X	Market_Type	1	Commercial			2
X	Account_Representative	1	Commercial			4
X	Credit_Rating	1	Industrial			3
X	Material_Available	1				3

FIG. 15

X / Y	Database Fields	X Level / Y Metric Selector	X Filter	Analyze Top N Elements	Element Order / Y Weight Selector	Total Element Count In DB
Y	On_Time_Delivery	MEDIAN				
X	Customer_Type	1		50		3
X	Geography	1				4
X	Market_Type	1	Commercial			2
X	Account_Representative	1				4
X	Credit_Rating	1				3
X	Material_Available	1				3

FIG. 16

<i>Significant Factor Specifications</i>		
<i>Minimum Record Count:</i>		1
<i>Maximum P Value (α):</i>		0.05
<i>Minimum Test Power ($1 - \beta$):</i>		90%
<i>"Above" Filter Value:</i>	<input type="checkbox"/> Use "Above" Filter	2.00
<i>"Below" Filter Value:</i>	<input type="checkbox"/> Use "Below" Filter	-2.00

FIG. 17**FIG. 18****FIG. 19**

A	B	C	D	E	F	G	H
7	STATISTICAL STRAT-SEG OUTPUT FOR: On Time Delivery						
8							
9	MEDIAN				Main Effects	2nd Order Interactions	3rd Order Interactions
10	0.000				TOTAL	TOTAL	TOTAL
11	0.000				Account_Representative : Leslie	Market_Type : Commercial	4th Order Interaction
12	-1000				Account_Representative : Leslie	Market_Type : Commercial	
13	-3.000				Account_Representative : Leslie	Market_Type : Commercial	Material Available : No Part Required
14	1000				Account_Representative : Leslie	Market_Type : Commercial	Material Available : Parts Available
15	6.000				Account_Representative : Leslie	Market_Type : Commercial	Material Available : Parts Ordered
16	8.000				Account_Representative : Leslie	Market_Type : Commercial	Material Available : Parts Ordered
17	1000				Account_Representative : Leslie	Market_Type : Industrial	Customer
18	-2.000				Account_Representative : Leslie	Market_Type : Industrial	Material Available : No Part Required
19	5.000				Account_Representative : Leslie	Market_Type : Industrial	Material Available : Parts Ordered
20	7.000				Account_Representative : Leslie	Market_Type : Industrial	Material Available : Parts Ordered
21	6.000				Account_Representative : Leslie	Market_Type : Industrial	Material Available : Parts Ordered
22	-3.000				Account_Representative : Leslie	Market_Type : No Part Required	Geography
23	5.500				Account_Representative : Leslie	Market_Type : Parts Ordered	Geography
24	-1000				Account_Representative : Mark		
25	-2.000				Account_Representative : Mark	Market_Type : Commercial	
26	-3.000				Account_Representative : Mark	Market_Type : Commercial	Credit_Rating : A
27	-4.000				Account_Representative : Mark	Market_Type : Commercial	Credit_Rating : A
28	-5.000				Account_Representative : Mark	Market_Type : Commercial	Credit_Rating : A
29	-3.500				Account_Representative : Mark	Market_Type : Commercial	Credit_Rating : A
30	4.000				Account_Representative : Mark	Market_Type : Commercial	Credit_Rating : A
31	0.000				Account_Representative : Mark	Market_Type : Commercial	Credit_Rating : A
32	-5.000				Account_Representative : Mark	Market_Type : Commercial	Credit_Rating : A
33	-3.000				Account_Representative : Mark	Market_Type : Commercial	Credit_Rating : A

FIG. 20

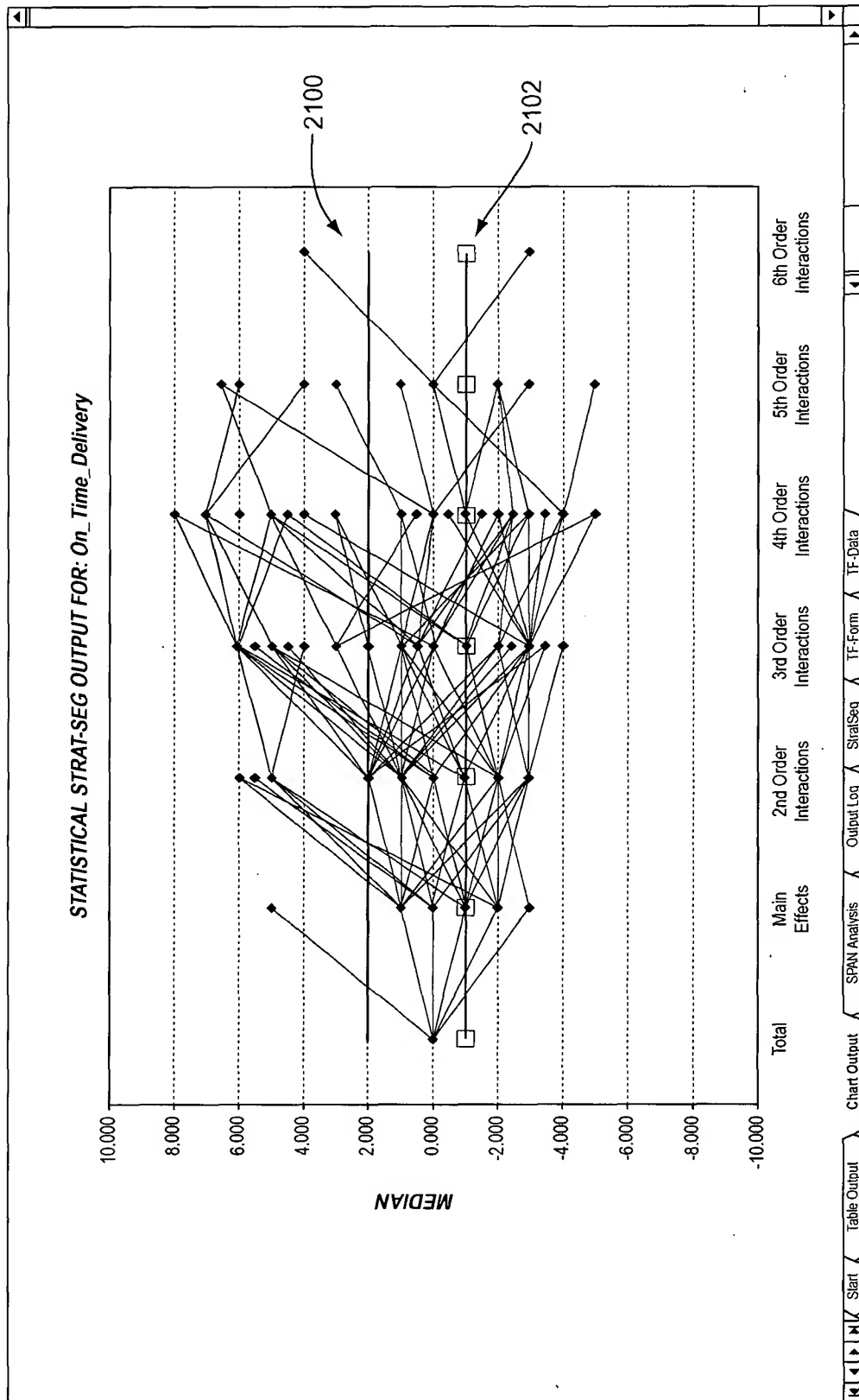
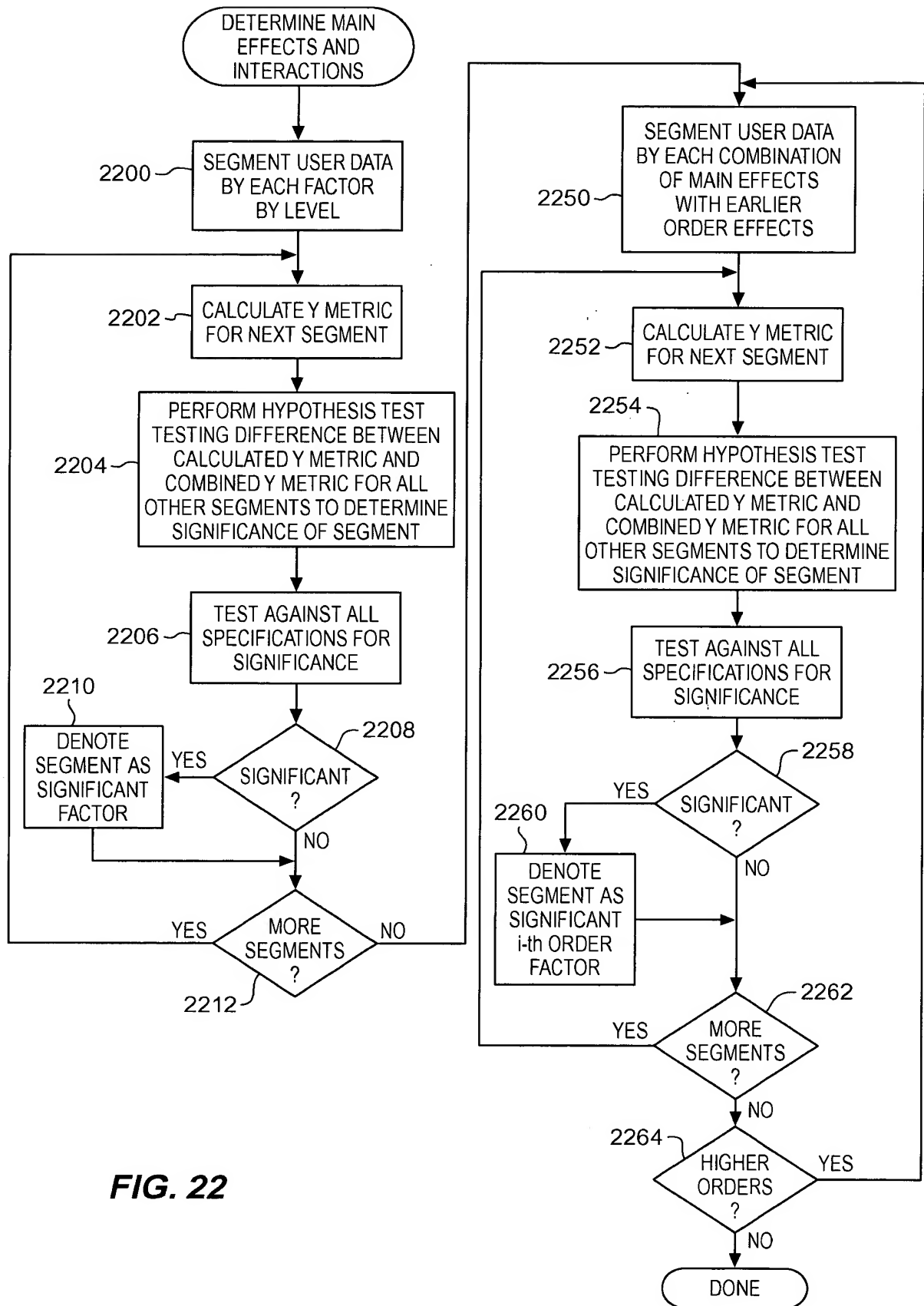


FIG. 21

**FIG. 22**